

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1011751

Luminaire Tested: S123DIP-B560D1195UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011751
REPORT IS A COMBINATION OF REPORTS P990024 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB40-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

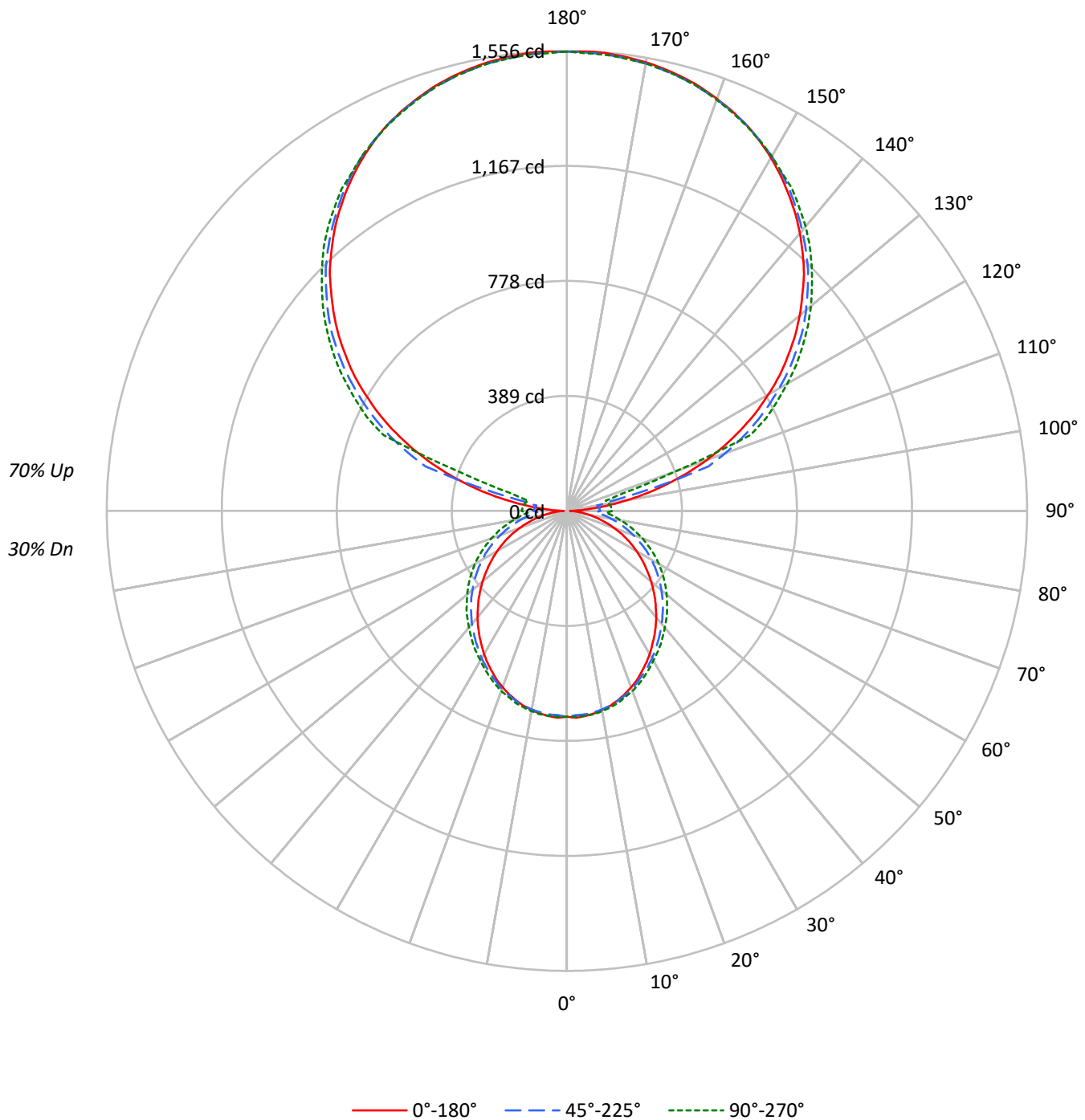
Lumens per Lamp: N/A
Luminaire Lumens: 7080.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	33	32	31
2	84	77	70	65	75	69	64	59	54	51	47	41	38	36	28	27	25
3	77	67	60	54	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	47	41	42	37	33	32	28	26	22	20	18
5	64	52	44	39	57	47	40	35	37	32	29	28	25	22	20	18	16
6	59	47	39	33	52	42	35	30	34	28	25	25	22	19	18	16	14
7	54	42	34	29	48	38	31	26	30	25	22	23	19	17	16	14	12
8	50	38	31	25	45	34	28	23	28	23	19	21	17	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	11	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7495	7495	7495
5°	7515	7275	7269
10°	7444	7078	7023
15°	7347	6860	6764
20°	7206	6618	6484
25°	7034	6344	6195
30°	6858	6097	5905
35°	6661	5837	5668
40°	6471	5601	5418
45°	6263	5371	5212
50°	6056	5144	4988
55°	5827	4910	4783
60°	5602	4671	4572
65°	5371	4417	4325
70°	5027	4132	4071
75°	4588	3807	3809
80°	4077	3477	3510
85°	3573	3211	3296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	0.9
10°-20°	188.3	2.7
20°-30°	281.6	4.0
30°-40°	336.2	4.7
40°-50°	351.8	5.0
50°-60°	330.1	4.7
60°-70°	275.7	3.9
70°-80°	197.1	2.8
80°-90°	120.4	1.7
90°-100°	128.5	1.8
100°-110°	319.1	4.5
110°-120°	685.4	9.7
120°-130°	844.8	11.9
130°-140°	889.7	12.6
140°-150°	825.2	11.7
150°-160°	664.0	9.4
160°-170°	428.5	6.1
170°-180°	147.7	2.1
0°-30°	535.9	7.6
0°-40°	872.1	12.3
0°-60°	1553.9	21.9
0°-90°	2147.2	30.3
90°-120°	1133.0	16.0
90°-150°	3692.6	52.2
90°-180°	4933.0	69.7
0°-180°	7080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	697	696	691	697	696	66
15°	664	666	665	673	672	187
25°	599	607	609	619	619	276
35°	516	528	538	549	552	323
45°	422	440	459	473	479	325
55°	322	347	374	394	400	288
65°	222	252	285	308	316	220
75°	121	156	194	219	228	129
85°	37	75	115	141	149	38
90°	11	60	113	144	154	11
95°	79	61	111	142	150	91
105°	350	381	310	127	136	371
115°	649	665	703	733	743	641
125°	912	921	948	966	974	815
135°	1134	1140	1153	1170	1170	873
145°	1308	1315	1317	1326	1329	818
155°	1440	1437	1438	1444	1437	663
165°	1518	1515	1513	1523	1515	429
175°	1554	1548	1549	1557	1548	148
180°	1554	1554	1554	1554	1554	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	696.3	696.3	696.3	696.3	696.3
2.5°	700.1	697.8	691.7	697.8	697.0
5°	697.0	695.5	691.0	697.0	696.3
7.5°	691.7	691.7	687.2	694.7	694.0
10°	684.1	685.6	681.9	689.4	687.9
12.5°	675.0	677.3	675.0	681.9	680.3
15°	663.7	665.9	665.2	672.8	672.0
17.5°	650.0	654.6	653.8	660.6	659.1
20°	634.8	639.4	640.9	647.7	648.5
22.5°	618.9	623.5	625.7	634.8	634.1
25°	599.2	606.8	609.0	618.9	618.9
27.5°	580.2	588.6	593.1	601.5	602.2
30°	559.7	569.6	575.7	584.8	584.8
32.5°	537.0	548.4	556.7	566.6	568.8
35°	515.8	527.9	537.7	549.1	552.2
37.5°	493.0	506.7	518.0	530.9	533.2
40°	470.2	483.9	499.1	512.0	515.0
42.5°	445.2	462.7	478.6	493.0	497.5
45°	421.7	439.9	458.9	473.3	479.3
47.5°	396.7	417.2	438.4	454.3	458.9
50°	372.4	393.6	417.2	434.6	439.9
52.5°	346.6	369.4	395.9	414.1	420.9
55°	321.6	346.6	373.9	394.4	400.5
57.5°	297.3	323.1	352.7	373.2	380.0
60°	271.5	298.8	329.9	351.2	359.5
62.5°	247.3	275.3	308.7	329.9	337.5
65°	222.2	251.8	285.2	307.9	315.5
67.5°	197.2	228.3	261.7	286.7	292.8
70°	170.7	203.3	239.7	263.9	271.5
72.5°	146.4	179.0	216.9	241.9	249.5
75°	120.6	156.2	194.2	219.2	228.3
77.5°	98.6	134.2	172.2	198.7	205.5
80°	75.1	112.3	151.7	177.5	185.1
82.5°	54.6	92.5	132.7	158.5	166.1
85°	37.2	75.1	115.3	141.1	148.7
87.5°	22.8	60.7	99.4	125.1	132.7
90°	11.1	59.7	113.4	143.8	153.7
92.5°	35.7	61.3	109.6	142.8	150.7
95°	78.7	61.0	110.9	142.5	150.1
97.5°	135.7	130.7	107.4	139.5	148.2
100°	201.9	249.3	104.1	135.3	144.1
102.5°	277.4	313.6	146.8	130.0	139.9
105°	350.1	381.0	309.7	126.6	135.7
107.5°	426.7	452.9	501.4	344.1	199.7
110°	503.3	526.1	569.1	550.8	391.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	577.2	595.9	637.4	666.7	671.2
115°	649.1	665.1	702.8	732.6	743.3
117.5°	720.7	734.9	766.3	793.9	801.0
120°	785.7	799.9	828.4	855.1	860.4
122.5°	852.6	862.3	890.4	912.8	919.4
125°	912.0	921.2	947.8	966.0	973.6
127.5°	972.0	980.4	1005.2	1023.8	1026.8
130°	1027.4	1035.8	1055.6	1074.7	1076.9
132.5°	1079.7	1088.9	1103.8	1122.0	1123.9
135°	1134.0	1140.2	1153.1	1170.3	1170.5
137.5°	1180.1	1188.7	1196.3	1214.1	1215.6
140°	1225.6	1232.5	1238.2	1254.2	1255.7
142.5°	1268.3	1274.4	1277.9	1291.3	1291.6
145°	1307.6	1314.8	1317.2	1325.6	1328.6
147.5°	1344.9	1350.6	1352.9	1357.5	1354.8
150°	1379.5	1383.0	1385.3	1387.6	1385.6
152.5°	1410.7	1411.8	1413.0	1417.6	1411.8
155°	1439.5	1437.2	1438.4	1444.1	1437.2
157.5°	1462.6	1462.6	1461.5	1468.4	1459.1
160°	1483.4	1482.2	1481.1	1488.0	1479.9
162.5°	1503.0	1499.5	1498.4	1506.5	1499.5
165°	1518.0	1514.6	1513.4	1522.6	1514.6
167.5°	1530.7	1526.1	1526.1	1535.3	1526.1
170°	1541.1	1536.5	1536.5	1545.7	1536.5
172.5°	1548.0	1542.3	1543.4	1552.6	1542.3
175°	1553.8	1548.0	1549.2	1557.3	1548.0
177.5°	1556.1	1550.3	1551.5	1560.7	1549.2
180°	1553.8	1553.8	1553.8	1553.8	1553.8

(END OF REPORT)